

Listing of Claims:

Claims 1-35 (canceled)

36. (Currently Amended) An integrated circuit comprising:

at least one metal layer comprising at least two pairs of conductors to interconnect one or more points on the integrated circuit, wherein a conductor comprises one or more wires and a wire comprises a continuous segment deposited in a single direction, each pair of conductors comprising:

a first wire deposited in a first Manhattan direction relative to the boundaries of the integrated circuit, ~~the first Manhattan direction being different than the second Manhattan direction,~~ the ~~second~~ first wire comprising a ~~second~~ first wire length including first and second ends;

a second wire deposited in a second Manhattan direction relative to the boundaries of the integrated circuit, the first Manhattan direction being different than the second Manhattan direction, the second wire comprising a second wire length including first and second ends, the first end of the second wire being coupled to the second end of the first wire; and

wherein, an effective wiring direction of the pairs of conductors comprises an angle, A, measured relative to the boundaries of the integrated circuit, defined by the expression $\tan A = Y/X$,

wherein, Y comprises a line segment with a distance starting from the second end of the second wire in the last conductor pair and ending at an intersection with a line segment propagated from the first end of the first wire and in the direction of the first wire, and -X comprises a distance, measured in the direction of the first wire, starting from the first end of the first wire and ending with the intersection of the Y line segment.

37. (Original) The integrated circuit as set forth in claim 36, wherein the first Manhattan direction comprises a horizontal direction and the second Manhattan direction comprises a vertical direction.

38. (Original) The integrated circuit as set forth in claim 36, wherein the first Manhattan direction comprises a vertical direction and the second Manhattan direction comprises a horizontal direction.

39. (Original) The integrated circuit as set forth in claim 36, wherein the first wire length equals the second wire length so as to simulate an effective direction of 45 degrees.

40. (Original) The integrated circuit as set forth in claim 36, wherein the ratio of the first wire length to the second wire length equals three to two, so as to simulate an effective wiring direction of 60 degrees.

41. (Original) The integrated circuit as set forth in claim 36, wherein the metal layer comprises a plurality of independent conductors deposited in parallel.

Claims 42-47 (canceled)